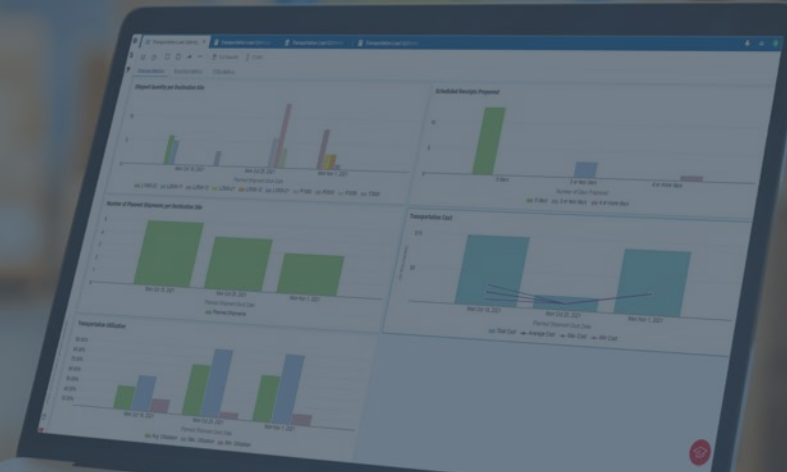


Transportation Load Optimizer

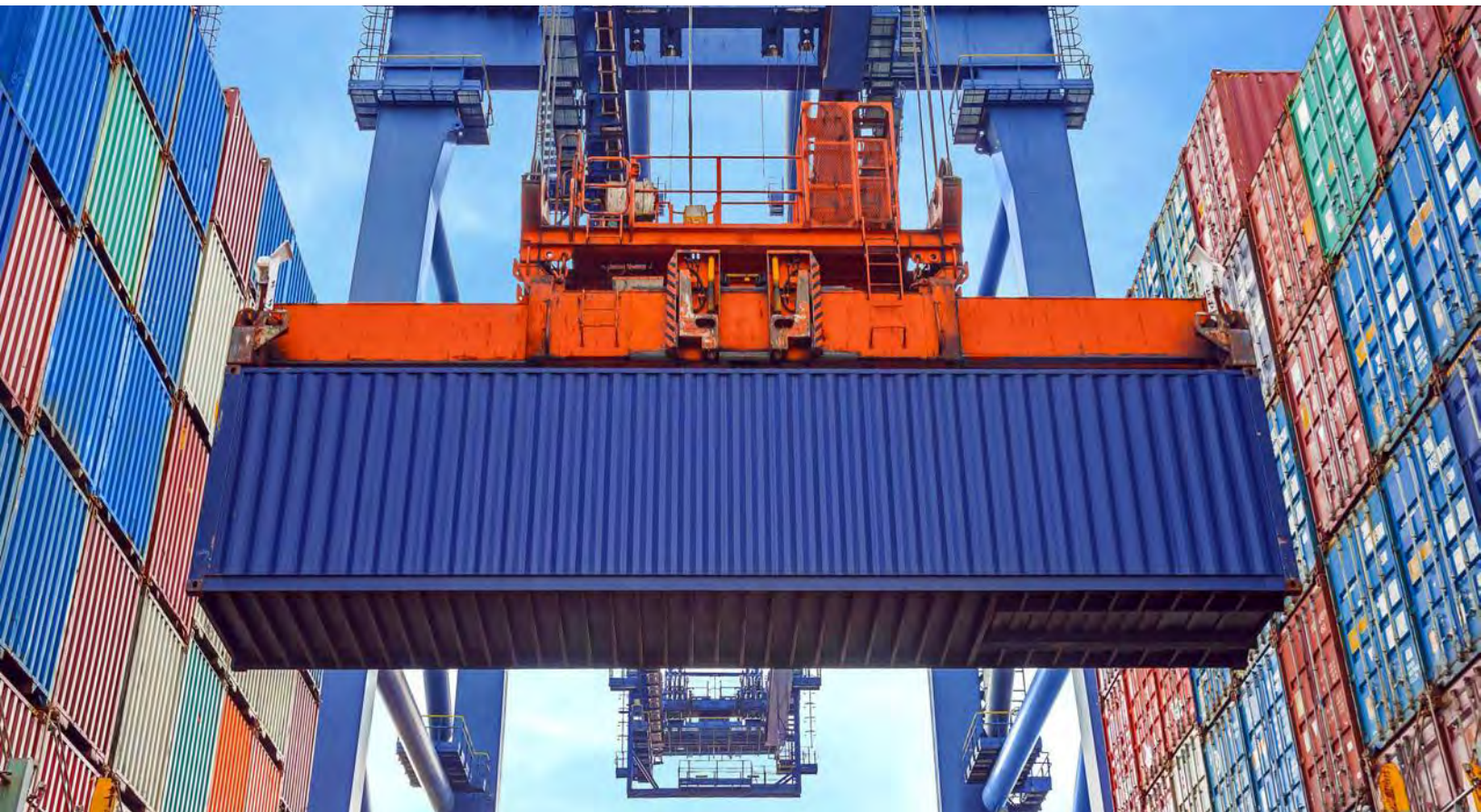


The Kinaxis® Transportation Load Optimizer (TLO) by 4flow is a certified RapidResponse® application that enables Kinaxis customers to integrate transportation constraints into the supply chain earlier and enable S&OP processes. The TLO brings the power of transportation and load building optimization to concurrent planning. The application also boosts efficiency and significantly reduces freight spend and carbon emissions – all to help planners make confident, profitable supply chain decisions.

The TLO supports improved material handling processes concurrently with RapidResponse sales and operations planning (S&OP) workflows and what-next scenarios. Its optimization algorithms are based on real-world constraints, including freight rates and actual transportation capacities, all for actionable planning results. Customers are able to reduce transportation and freight spend by preponing or postponing shipments to consolidate orders and create fuller, more efficient loads. As an added bonus, increased capacity utilization also means lower carbon emissions for greater sustainability.

Powerful capabilities drive impressive results

- Reduce transportation costs by up to 10% with optimization of scheduled receipts
- Maximize utilization rate of transportation assets by 10-20% by consolidating scheduled receipts
- Improve process efficiency for planning and transportation processes by 8-12% with greater end-to-end transparency and flexibility
- Reduce carbon emissions by more than 15% by optimizing your orders
- Guide your own optimization process with full transparency over the results and the ability to make manual adjustments
- Ensure supply chain resilience and prepare for volatility by considering transportation constraints earlier
- Foresee bottlenecks and reduce reaction time
- Increase flexibility and material availability



Transportation load optimization done differently

Integrating transportation factors in your S&OP processes has never been easier. Planners can use the TLO within RapidResponse as part of their material planning without transferring data or switching between software interfaces. The TLO runs in the background during planning and optimizes shipments without users needing to run an extra analysis. Plus, the application only requires a simple one-time step to enter master data and configure transportation constraints and planning parameters, making integration even more simplified.

1 Assess out your most important metrics

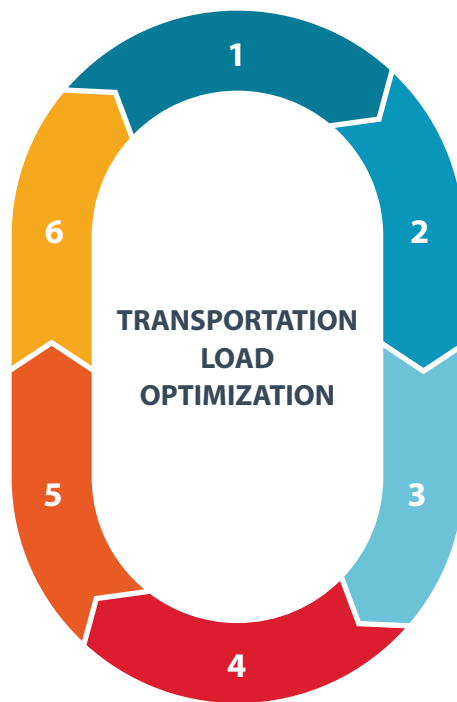
Review the most relevant KPIs at a glance with visual analytics and dashboards. Keep track of total transportation cost, average utilization, and carbon emissions.

6 Compare for confident decision making

Compare the TLO's results to your business objectives with the provided transportation KPIs.

5 Weigh the impact on the inventory balance

Review supply and demand for each site and see how the inventory balance is affected by the TLO's proposed optimization results.



2 Review and prepare your data

Adjust your data input as needed with the help of error notification and handling functionalities, and automatic data maintenance capabilities.

3 Full transparency over the optimized results

After the TLO optimizes your orders, review the results in detail and, if satisfied, accept the proposed shipment.

4 Perform manual adjustment if needed

After reviewing the results, make adjustments in the same workbook if necessary.



Gauge performance. No detective work required.

Customization is great, but some options should just be standard. Our Transportation Load Optimizer application's built-in capabilities include:

- **Data preparation**

Error notifications, automatic data maintenance capabilities, and the possibility of manual data adjustments make reviewing and preparing data easy and quick.

- **Planning**

Optimize scheduled receipts into physical loads that can be shipped while considering real supply network aspects; such aspects include the mode of transportation, material availability, freight agreements, planning horizons, and min-max utilization. The TLO gives you complete transparency and the option for manual adjustment, allowing you full control of the optimized results.

- **Analysis**

Review the impact of the optimization results on demand fulfillment and inventory supply. Use the scorecard to compare different scenarios and make confident decisions.

- **Dashboard**

Quickly analyze and compare the most relevant KPIs for your transportation lane at a glance: visualize the impact on total transportation cost in a selected time frame, the utilization average, and the optimization potential for your site. Learn if some orders were excluded from the optimization and review the root cause to troubleshoot. Review and track the carbon emission of your lane.

Cross-functional collaboration

Responsibility-based, context-driven and completely mobile, smart collaboration in RapidResponse automatically shows you who to work with and delivers the details you need to make quick decisions right to your fingertips. Our Live Lens capability gives users a real-time view of supply chain health and key business and supply chain metrics.



Materials planner

The TLO lets you manage the detailed plan for components and raw materials required to satisfy the master production schedule, including analysis of any excess or obsolete inventory. Get a broader view by considering transportation constraints earlier.



Supply planner

The TLO helps you gain a clear understanding of any transportation-based gaps or issues with demand forecasts, sales orders, material, capacity, shipments and other elements of supply. Have time to be proactive instead of reactive.

Not your grandfather's planning platform

Take your integrated business planning and digital supply chain into the future with the only platform capable of powering true concurrent planning. Eliminate silos, banish disconnected processes, and say goodbye to outdated, static data with Kinaxis RapidResponse. With decades of in-depth supply chain expertise, our cloud-based platform and purpose-built planning apps use patented database, visualization, and analytics technology you won't get anywhere else.

Use RapidResponse to run one or more of our easily configured supply chain planning applications. Or build your own custom apps and algorithms right in the platform. Get the flexibility you want to create the digital supply chain you need.



What's next on your supply chain journey?

Choose the path that's right for your organization. S&OP/IBP, demand, supply, inventory – start from anywhere and grow the way you want with optional industry-specific packages or enhanced planning add-ons. RapidResponse is easily scalable and delivers the capabilities you need to grow and succeed. We'll help you mature your planning processes wherever you happen to be in your supply chain journey.

Revolutionize your planning with Kinaxis RapidResponse

Everyday volatility and uncertainty demand quick action. Kinaxis® delivers the agility to make fast, confident decisions across integrated business planning and the digital supply chain. People can plan better, live better and change the world. Trusted by innovative brands, we combine human intelligence with AI and concurrent planning to help companies plan for any future, monitor risks and opportunities, and respond at the pace of change. Powered by an extensible, cloud-based platform, Kinaxis delivers industry-proven applications so everyone can know sooner, act faster and remove waste. Don't believe us? Ask us to prove it. Learn more at [Kinaxis.com](https://www.kinaxis.com).

About 4flow

4flow is a leading global provider of supply chain optimization services, including consulting, software, and managed services. Leveraging 20 years of supply chain expertise and IT know-how, 4flow provides seamless, optimized processes, enabling future-proof digital supply chain transformations for leading businesses. Clients include companies in the automotive, manufacturing, machinery, fast-moving consumer goods and consumer packaged goods, retail, chemicals, and life sciences industries. Collaborating closely with clients from strategy to implementation, our award-winning supply chain solutions for complex networks provide proven results. Operating worldwide, 4flow has 19 locations in North America, South America, Europe, and Asia. For more information, visit [4flow.com](https://www.4flow.com)



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